

SCIENTIFIC PHOTOGRAPHER SERIES

Code No.	Class Title	Occ. Area	Work Area	Prob. Period	Effective Date
3045	Scientific Photographer I	02	445	6 mo.	03/30/90
3046	Scientific Photographer II	02	445	6 mo.	03/30/90
3047	Scientific Photographer III	02	445	6 mo.	03/30/90
3048	Principal Scientific Photographer	02	445	6 mo.	03/30/90

Promotional Line: 185

Series Narrative

Employees in this series perform and/or supervise the performance of standard and specialized photographic techniques involving scientific subjects.

DESCRIPTIONS OF LEVELS OF WORK

Level I: Scientific Photographer I **3045**

Employees at this level perform a limited of standard photographic procedures involving simple scientific subjects. They work under direct supervision from a designated supervisor.

A Scientific Photographer I typically--

1. takes still photographs (black-and-white or color) of simple subjects using simple lighting arrangements
2. performs photographic printing and processing when necessary to complete simple photographic assignments
3. operates process and copy cameras for routine work, including black-and-white half-tone negatives
4. assists in more complex assignments requiring advanced photographic and lighting techniques (such as surgical photography)
5. operates special purpose cameras
6. cleans and adjusts photographic apparatus and makes minor repairs when necessary
7. loads and unloads roll magazines for still and motion picture cameras
8. performs other related duties as assigned

Level II: Scientific Photographer II **3046**

Employees at this level perform a wide variety of standard photographic techniques involving moderately complex scientific subjects. They work under general supervision from a designated supervisor.

A Scientific Photographer II typically--

1. takes still photographs (black-and-white or color) of patients, pathological specimens, and other subjects requiring more complex camera work and lighting
2. takes routing motion pictures of patients and other subjects
3. takes photomicrographs of tissue sections and similar subjects
4. assists in motion picture production
5. does simple editing and sorting of motion picture film
6. performs other related duties as assigned

Level III: Scientific Photographer III

3047

Employees at this level perform a wide variety of highly complex photographic techniques involving complex scientific subjects and/or are responsible for the supervision of a small scientific photographic unit. They work under general supervision from a designated supervisor.

A Scientific Photographer III typically--

1. operates motion picture cameras, photographing in either color or black-and-white
2. operates sound-recording equipment that is synchronized with the camera
3. takes still, time-lapse, or motion-picture photomicrographs in black-and-white or color, using advanced techniques (such as phase contrast, polarization, fluorescence, or ultraviolet), including photomicrographs of living cultures
4. takes still black-and-white or color photographs and motion pictures in operating rooms, recovery rooms, and other restricted areas
5. uses specially designated equipment or adapts regular equipment to take photographs in body cavities and orifices
6. operates animation camera and stand
7. does advanced editing of motion picture and sound film for mixing sound tracks and/or picture film for special effects, using double printing or other techniques
8. conforms original motion picture film (sound and/or picture) for "A and B" printing
9. supervises employees of lower rank
10. performs other related duties as assigned

Level IV: Principal Scientific Photographer**3048**

Employees at this level perform highly complex photographic techniques and are responsible for the direction of a complex scientific photographic unit. They work under administrative supervision from a designated supervisor.

A Principal Scientific Photographer typically--

1. directs the work of a complex photographic unit, with responsibility for the quality of work illustrating scientific subjects
2. determines the need for and recommends the purchase of photographic supplies and equipment to carry out both standard and specialized photographic activities
3. serves as a consultant to academic staff members on the selection and preparation of audio-visual illustrations for scientific lectures, publications, and exhibits
4. plans the work of photographers, establishing procedures and solving problems occurring in assigned tasks
5. adapts recent advancements in scientific photographic techniques and develops new methods to meet varying and unusual subjects and conditions
6. takes photographs of a wide variety of complex subjects (such as complicated laboratory tests and techniques) involving the use of highly complex techniques and equipment
7. supervises subordinate personnel and clerical workers as directed
8. performs other related duties as assigned

MINIMUM ACCEPTABLE QUALIFICATIONS REQUIRED FOR ENTRY INTO:**Level I: Scientific Photographer I****3045****CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER**

1. high school graduation or equivalent
2. (A) one year of experience in professional scientific photography of a general nature. (College course work leading to a degree in medical photography may be substituted for the above experience on the basis of two years of college training being equivalent to one year of scientific photography experience.)

or

- (B) two years of experience in commercial or industrial photography

PERSONAL ATTRIBUTES NEEDED TO UNDERTAKE JOB

1. knowledge of photographic equipment, methods, and materials

2. ability to photograph scientific subjects, including patients and specimens

Level II: Scientific Photographer II**3046**

CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

1. high school graduation or equivalent
2. three years of experience in professional scientific photography, one of which included the use of a wide variety of standard photographic techniques and equipment (Experience in commercial or industrial photography may be substituted for up to two years of the above experience on the basis of two years of commercial or industrial experience being equivalent to one year of scientific experience. College course work leading to a degree in medical photography may also be substituted for up to two years of the above experience on the basis of two years of college training being equivalent to one year of scientific photography experience.)

PERSONAL ATTRIBUTES NEEDED TO UNDERTAKE JOB

1. knowledge of basic and special photographic procedures used in scientific photography
2. ability to photograph scientific subjects, including patients and specimens

Level III: Scientific Photographer III**3047**

CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

1. high school graduation or equivalent
2. five years of experience in professional scientific photography, two of which included the performance of a wide variety of standard photographic techniques involving complex scientific subjects*

*Experience in commercial or industrial photography may be substituted for up to two years of the above experience on the basis of two years of commercial or industrial experience being equivalent to one year of scientific experience. College course work leading to a degree in medical photography may also be substituted for up to two years of the above experience on the basis of two years of college training being equivalent to one year of scientific photography experience.

PERSONAL ATTRIBUTES NEEDED TO UNDERTAKE JOB

1. knowledge of motion picture techniques as related to scientific photography
2. knowledge of skills needed to take photomicrographs
3. knowledge of sterile techniques as required in operating room photography
4. ability to photograph scientific subjects, including patients and specimens

Level IV: Principal Scientific Photographer**3048**

CREDENTIALS TO BE VERIFIED BY PLACEMENT OFFICER

1. high school graduation or equivalent
2. seven years of experience in professional scientific photography, three of which included the performance of a wide variety of highly complex photographic techniques involving complex subjects*

PERSONAL ATTRIBUTES NEEDED TO UNDERTAKE JOB

1. knowledge of specialized photographic techniques required in scientific photography
2. knowledge of latest developments in the field of scientific photography related to the presentation and illustration of scientific data

*Experience in commercial or industrial photography may be substituted for up to two years of the above experience on the basis of two years of commercial or industrial experience being equivalent to one year of scientific experience. College course work leading to a degree in medical photography may also be substituted for up to two years of the above experience on the basis of two years of college training being equivalent to one year of scientific photography experience.

Scientific Photographer I
Scientific Photographer II
Scientific Photographer III
Principal Scientific Photographer

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